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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,920	04/19/2004	Shunpei Yamazaki	12732-228001 / US7116	1020
26171 75	90 09/27/2006		EXAMINER	
FISH & RICHARDSON P.C.			MOORE, KARLA A	
P.O. BOX 1022 MINNEAPOLIS	s, MN 55440-1022		ART UNIT	PAPER NUMBER
			1763	
			DATE MAILED: 09/27/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/826,920	YAMAZAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Karla Moore	1763			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 22 Ju	ne 2006.				
2a) This action is FINAL . 2b) ⊠ This	<u> </u>				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) 25-28 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5-9,11-15,17-21,23 and 24 is/are rejected. 7) Claim(s) 4,10,16 and 22 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 30 August 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original of the original of the original of the original	a)⊠ accepted or b)□ objected t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 0404,1005,1205.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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DETAILED ACTION

Election/Restrictions

- 1. Claims 35-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention (Group II), there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 22 June 2006.
- 2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 1, 3, 6, 7, 9, 12-13, 15, 18-19, 21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Publication No. 2001/0006827 A1 to Van Slyke et al. in view of U.S. Patent No. 6,641,674 to Peng

- 6. Yamazaki et al. disclose an apparatus for forming a film substantially as claimed and comprising: a load chamber (Figure 5, 504); a conveyance chamber (501) connected to the load chamber; and a film formation chamber (509 or 506) connected to the conveyance chamber, wherein the film formation chamber comprises a first evaporation source (Figures 2A and 2B, 212) and means that moves the first evaporation source (see Figure 2b). The apparatus further comprises aligning means that aligns a mask (see paragraphs 33-36).
- 7. However, Yamazaki et al. fails to teach first and second evaporation sources with associated moving means for each of the evaporation sources.
- 8. Peng et al. teach providing a plurality of evaporation sources in a single chamber based on requirements of a desired processing method, each of the sources is provided with means that moves the sources for the purpose of controlling the distribution of evaporated particles and also for the purpose of controlling the deposition rate (column 3, roes 6-29).
- 9. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provided a plurality of evaporation sources in a single processing chamber in Yamazaki et al. in order to perform a desired processing method and in order to control the distribution of evaporated particles, as well as to control the deposition rate as taught by Peng et al.
- 10. With respect to claims 3, 9, 15 and 21, the film formation chamber is connected to an evacuation/exhaust treatment chamber (see paragraph 43) and has means for introducing at least one of a material gas and a cleaning gas (see paragraph 20).
- 11. With respect to claims 6, 12, 18 and 24, the apparatus further comprises a sealing chamber (Figure 5, 511) connected to the conveyance chamber, wherein the sealing chamber is connected to evacuating/exhausting means and has a mechanism for applying a seal material (paragraphs 53-56).
- 12. With respect to the shape of the openings in the sources, as recited in claims 13 and 19, the courts have held that selections of shape are a matter of choice which a person of ordinary skill in the art

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will find obvious absent persuasive evidence that the particular configuration of the claimed shape was significant. In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

- 13. Claims 2, 5, 8, 11, 14, 17, 20 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. and Peng et al. as applied to claims 1, 3, 6, 7, 9, 12-13, 15, 18-19, 21 and 24 above, and further in view of U.S. Patent No. 6,179,923 to Yamamoto et al.
- 14. Yamazaki et al. and Peng disclose the invention substantially as claimed and as described above.
- 15. However, Yamazaki et al. and Peng fail to teach an installation chamber connected to the film formation chamber and connected to evacuating/exhausting means and with a mechanism for setting an evaporation material in the evaporation sources.
- 16. Yamamoto et al. teach providing an installation chamber connected to the film formation chamber and connected to evacuating/exhausting means and with a mechanism for setting an evaporation material in the evaporation sources for the purpose of reducing the amount of time required for cleaning parts and to increase the rate of operation of a depositing apparatus (paragraph 5, row 53 through column 6, rows 42).
- 17. It would have been obvious to one of ordinary skill in the art at the time the Applicant's invention was made to have provided an installation chamber connected to the film formation chamber and connected to evacuating/exhausting means and with a mechanism for setting an evaporation material in the evaporation sources in Yamazaki et al. and Peng in order to reduce the amount of time required for cleaning parts and to increase the rate of operation of the depositing apparatus as taught by Yamamoto et al.
- 18. With respect to claims 5 and 11, Yamamoto et al. further teach providing a shutter for the purpose of shielding a workpiece from deposition (see Figures 2 and 3).

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Allowable Subject Matter

19. Claims 4, 10, 16 and 22 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

20. The following is a statement of reasons for the indication of allowable subject matter: The prior

art of record fails to teach or fairly suggest a film forming apparatus as claimed and described above and

further comprising means for moving the evaporation sources in x-direction, y-direction and z-direction in

the film formation chamber. Further, no other proper combinable reference was located that provided the

missing teaching(s) and requisite motivation.

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,053,981 teach an evaporation source with an optimized opening.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be

reached on Monday-Friday, 9:00 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

Karla Moore Primary Examiner Art Unit 1763

5 September 2006